PATENT COOPERATION TREATY

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REC'D 0 4 JAN 2005

INTERNATIONAL PRELIMINARY REPORTON PATENTARIO PER INTERNATIONAL PROPRIETARIO PER INTERNATIONAL PRINTERNATIONAL PROPRIETARIO PER INTERNATIONAL PRINTERNATIONAL PRINTERNATIO

PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BOIF 1202	FOR FURTHER ACTI	ION See Form PCT/IPEA					
International application No.	International filing date (de	ty/month/year)	Priority date (day/month/)	vear)			
PCT/JP03 /13507	22.10.	2003	23.10.2	2002			
International Patent Classification (IPC) or national classification and IPC Int.Cl 7 C07D 231/38							
Applicant BANYU PHARMACEUTICAL CO., LTD.							
This report is the international part Authority under Article 35 and to	preliminary examination re	eport, established by according to Article	this International Prelimit	nary Examining			
2. This REPORT consists of a total		cluding this cover sl		,			
3. This report is also accompanied							
a. a total of	_ sheets, as follows:		•				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications	relating to the following ite	ms:					
Box No. I Basis of the	he report		• .				
Box No. II Priority			•	•			
Box No. III Non-estab	lishment of opinion with re	egard to novelty, inv	entive step and industrial ap	oplicability			
Box No. IV Lack of u	nity of invention		•	, 1			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain do							
Box No. VII Certain de							
Box No. VIII Certain of	oservations on the internation	onal application	•				
Date of submission of the demand Date of completion of this report							
31.03.2004 07.12.2004							
Name and mailing address of the IPEA/JP		Authorized officer	•	4P 8213			
Japan Patent Of	HITOSHI	WATANABE	<u> </u>				
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan Telephone No. +81-3-3581-1101 Ext. 3490				3490			



International application No. PCT/JP 03 /13

/13507

Box No. I	Basis of the report					
1. With regard	I to the language, this report is based on the international application in the language in which it was filed, unless					
_	ndicated under this item.					
This	report is based on translations from the original language into the following language,					
whic	which is the language of a translation furnished for the purposes of:					
	international search (under Rules 12.3 and 23.1(b))					
	publication of the international application (under Rule 12.4)					
· . 🔲	international preliminary examination (under Rules 55.2 and/or 55.3)					
	d to the elements of the international application, this report is based on (replacement sheets which have been					
_	o the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"					
and are not	annexed to this report):					
the i	nternational application as originally filed/furnished					
[] the	description:					
	11. Cl. 4/C					
page page						
page						
page	1000170d by this realisting on					
the o	claims:					
page						
page	es* as amended (together with any statement) under Article 19					
page	received by this Authority on					
· page	es* received by this Authority on					
	drawings:					
	as a sister the Stad (Symiotod					
, page	received by this Authority on					
page						
F-5						
a se	quence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	amendments have resulted in the cancellation of:					
	the description, pages					
L	the claims, Nos.					
· · □	the drawings, sheets/figs					
	the sequence listing (specify):					
l · 🗖	any table(s) related to sequence listing (specify):					
mad	s report has been established as if (some of) the amendments annexed to this report and listed below had not been de, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box					
(Ru	de 70.2(c)).					
	the description, pages					
	the claims, Nos.					
	the drawings, sheets/figs					
	the sequence listing (specify):					
	any table(s) related to sequence listing (specify):					
L	· · · · · · · · · · · · · · · · · · ·					
→ 1j tiem 4 apj	plies, some or all of those sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP03 / 13507

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability	, ';
	citations and explanations supporting such statement	

_	_
1	Statement

Novelty (N)	Claims	1-45	YES
	Claims	none	NO
Inventive step (IS)	Claims	27-41	YES
	Claims	1-26,42-45	NO
Industrial applicability (IA)	Claims	1-45	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1:

Folli, U., et al., "Effect of the structure of metallized pyrazole-monoazo dyes on their chromatic behavior", Journal of the Society of Dyers and Colourists (1980), 96(8), pp414-17

1-(2'-chlorophenyl)-3-aminopyrazole as Compound # IV is disclosed.

Document 2:

Genin,M.J.,et al., "Substituent effects on the antibacterial activity of nitrogen-carbon-linked (azolylphenyl)oxazolidinones with expanded activity against the fastidious Gram-negative organisms Haemophilus influenzae and Moraxella catarrhalis", Journal of Medicinal Chemistry (2000), 43(5), pp953-970

Compound #62 is disclosed.

Documentst 3:

ZAYED, E.M., et al., "Activated Nitriles in Heterocyclic Synthesis. Novel Synthesis of Pyrazols. Pyridones and Pyrrolo[2,3-b]pyridones", Organic Preparations and Procedures International 17(1) pp70-5 (1985)

The following scheme is shown:



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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box No. 5

Claims 1-26,42-45

Claims 1-26 and 42-45 lack an inventive step as being obvious over Document 3. In order to produce a compound I' of this application, one with skill in the art would easily adopt the scheme in Document 3 because of the similarity of the compounds (namely compound VII of Document 3 v.s. compound I' of this application), then use compound V of this application instead of compound VI of Document 3. It is merely what one with skill in the art would ordinarily do to find out the suitable reaction conditions (such as reaction tempreature, solvent and so on), and the reaction conditions this application specifies may not be regarded as the one not to be foreseen.

Claims 27-41.

Claims 27-41 have novelty and an inventive step.

The structurally closest compounds are disclosed in Document 1 and Document 2. However, compound 1-4 and compound 2-1 of this application are neither shown in Document 1 or Document 2, nor obvious over Document 1 or Document 2.